



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Barbas III et al.**

Serial No.: 09/586,625

Filed: June 2, 2000

For: **LIGAND ACTIVATED TRANSCRIPTIONAL  
REGULATOR PROTEINS**

Art Unit: 1646

Examiner: Murphy, J.

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents  
U.S. Patent & Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

08/08/02  
Date

Stephanie Seidman

13/c  
A.G.J  
8/20/02

AMENDMENT

Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

RECEIVED  
AUG 19 2002  
TECH CENTER 1600/2900

Dear Sir:

Responsive to the Office Action mailed February 8, 2002, please amend the application as follows:

**IN THE CLAIMS:**

Please cancel claim 4 without prejudice or disclaimer.

Please replace claims 1, 5, 8, 13, 20, 22, 25, 32, 34, 39, 43 and 45 with amended claims 1, 5, 8, 13, 20, 22, 25, 32, 34, 39, 43 and 45 as follows:

(Amended) A fusion protein, comprising a nucleotide binding domain operatively linked to a ligand binding domain derived from an intracellular receptor, wherein:

the nucleotide binding domain is a polydactyl zinc-finger peptide or modular portion thereof that specifically interacts with a contiguous nucleotide sequence of at least about 3 nucleotides;

the ligand binding domain has been modified to change its ligand specificity compared to the native hormone receptor; and

the fusion protein is a ligand activated transcriptional regulator.

5. The fusion protein of claim 1, wherein the modified ligand-binding domain is not substantially activated by endogenous ligands relative to exogenous or non-natural ligands.

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Stephanie Seidman

TRANSMITTAL LETTER

Commissioner for Patents  
U.S. Patent & Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

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Sir:

Transmitted herewith are an Amendment, with attachments, responsive to the  
Office Action mailed February 8, 2002, and a check for \$920.00 for the requisite fee  
for a three-month extension of time. If a Petition for extension of time is needed, this  
paper is to be considered such Petition.

**Extension fee for response within the third month:**

(X) By a large entity.....\$920.00

- ☒ The Commissioner is hereby authorized to charge any fee, including any  
submitted herewith if the attached check(s) is in the wrong amount or  
otherwise improper or missing, that may be due in connection with this  
and the attached papers, or with this application during its entire  
pendency to or to credit any overpayment to Deposit Account No. 50-  
1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie Seidman  
Registration No. 33,779

Attorney Docket 22908-1227B  
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